

# EE10 Series

## HVAC Temperature Transmitter for Indoor Applications

EE10 room transmitters are the ideal solution for indoor applications such as HVAC in residential and official buildings.

The very stylish, functional housing makes possible easy installation and fast exchange of the sensing unit for service purposes.

The temperature output signal can be active or passive.

For on site display of the measured values the EE10 with active temperature output can be equipped with an easily readable display.



EE10

### Typical Applications

building management for residential and office areas  
 switching cabinets  
 climate control in hotels and museums

### Features

excellent price / performance ratio  
 easiest installation  
 modern design  
 optional display

### Technical Data

#### Measuring Quantities

##### Temperature (active output)

Analogue output 0...50 degC<sup>1)</sup>

0-10 V

$-1 \text{ mA} < I_L < 1 \text{ mA}$

4-20 mA (two wires)

$R_L < (U_V - 10) / 0.02 < 500 \text{ Ohm}$

Accuracy at 20 degC and  $U_V=24\text{VDC}$

$\pm 0.3 \text{ degC}$

##### Temperature (passive output)

Type of T-Sensor

please see ordering guide

#### General Data

Voltage supply ( $U_V$ )

for 0 - 10 V

15 - 40 VDC or 24 VAC  $\pm 20\%$

for 4 - 20 mA

$28\text{V} > U_V > 10 + 0.02 \times R_L$  ( $R_L < 500 \text{ Ohm}$ )

Current consumption

for DC supply:

typical 4 mA

for AC supply:

typical 15 mA<sub>eff</sub>

Electrical connection

Screw terminals max. 1.5 mm<sup>2</sup>

Housing / Protection class

PC / IP20

Display

only for EE10-Tx version:

temperature

CE compatibility according

EN 50081-1

EN 50082-1



Temperature ranges

Working temperature range:

-5... +55 degC

Working temperature with display:

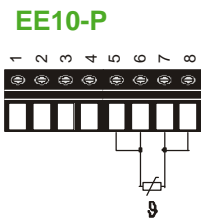
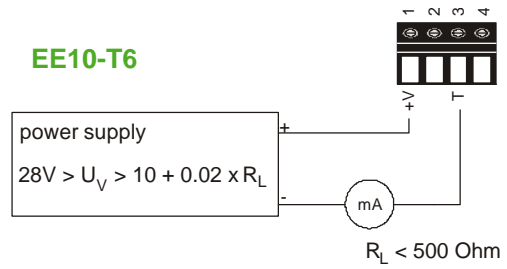
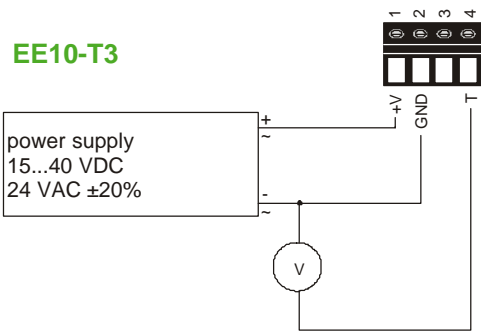
-5... +55 degC

Storage temperature range:

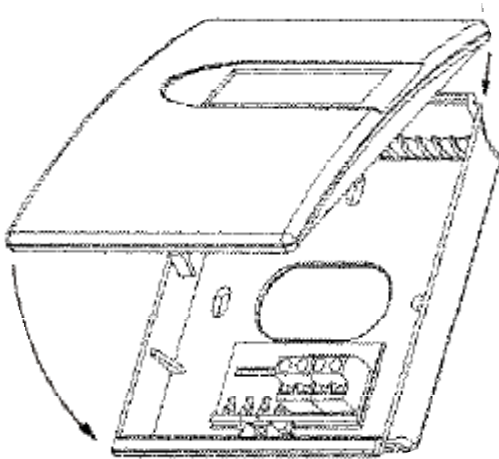
-25... +60 degC

1) Other scalings possible upon request

## Connection Diagram



## Dimensions (mm)



B x H x T = 85 x 100 x 26

Housing: PC  
Protection class: IP20

Housing colour: cover: RAL 9003 (signal white)  
back: RAL 7035 (light grey)

(other colours upon request)

## Ordering Guide

## Order Example

MODEL	OUTPUT	T-SCALE	DISPLAY
temperature active (T)	0-10V (3) 4-20 mA (6)	standard (0-50degC) (-) other (Txx)	without display (-) with display (D04)
<b>EE10-</b>			

MODEL	T-SENSOR
temperature passive (P)	Pt 100 DIN A (A) Pt 100 DIN B (B) Pt 1000 DIN A (C) Pt 1000 DIN B (D)
<b>EE10-</b>	

### EE10-T6-D04

Model: temperature transmitter  
Output: 4-20mA  
T-scale: 0-50degC  
Display: with display